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		STUDY MODULE D	ESCRIPTION FORM		
	of the module/subject iparadigm progr	amming		Code 1010331471010337136	
Field of study			Profile of study	Year /Semester	
Computer Science			(general academic, practical (brak)	4/7	
Elective path/specialty			Subject offered in:	Course (compulsory, elective)	
Information Technologies			polish	obligatory	
Cycle of study:			Form of study (full-time,part-time)		
First-cycle studies			full-time		
No. of I	nours			No. of credits	
Lectu	re: 1 Classes	s: - Laboratory: 1	Project/seminars:	- 3	
Status		program (Basic, major, other)	(university-wide, from another	•	
		(brak)		(brak)	
Educat	on areas and fields of sci	ence and art		ECTS distribution (number and %)	
technical sciences				3 100%	
Resp	onsible for subj	ect / lecturer:	Responsible for subje	ct / lecturer:	
dr i	nż. Grażyna Brzykcy		dr inż. Adam Meissner		
	ail: grazyna.brzykcy@	put.poznan.pl	email: adam.meissner@put.poznan.pl		
tel. 616653714			tel. 616653714		
Wydział Elektryczny ul. Piotrowo 3A 60-965 Poznań			Wydział Elektryczny ul. Piotrowo 3A 60-965 Poznań		
		s of knowledge, skills and			
	Student has basic knowledge of logic, theory of recursive functions, imperative and d				
1	Knowledge	programming, object-oriented pr networks.	ogramming, data bases, opera	ating systems and computer	
2	Skills	Student is able to acquire inform			
		able to integrate acquired information, to interpret it, to draw conclusions and to formulate and justify judgments. Student is able to communicate in English and to read descriptions and manuals of software tools, applications and similar documents.			
3	Social	Student understands the necess			
	different skills (linguistic, professional, personal and social). Student understands a responsibility associated to his own work. Student is able to adhere to team work rules are				
A	mntions and abi	take responsibility for cooperative	ve tasks.		
	•	ectives of the course:	aia aanaanta taabniguaa and r	aroarommina obstractions	
Acquir		paradigms and presentation of bangs an appropriate computation mo			
	Study outco	mes and reference to the	educational results for	r a field of study	
Knov	vledge:				
		owledge with theoretical foundation styles, software verification meth			
Skills			5 5 · 1		
		ware platforms and environments		, running and testing in	
ımpera	ative, object-oriented a	nd declarative programming langu	uages [[K_U10]]		

Social competencies:

1. Student understands the importance of stringent accomplishment of a given project with proper notation standards, proper language. Student understands the importance of keeping deadlines. - [[K_K07]]

Assessment methods of study outcomes

Faculty of Electrical Engineering

Lecture

Written test based on lecture (basic concepts and simple tasks).

Laboratory

Students? marks are based on continuous assessment of their programming activity and results of two written tests (creation of simple programs).

Course description

Lectures

Declarative computation paradigm. Concepts and techniques of the functional and deterministic logic programming. Iterative and recursive programming, metaprograming, abstract data types. Declarative concurrency. Programming models with an explicit state. A class as a data abstraction in object-oriented programming. Relational programming and data bases. Distributed programming in open systems. Constraint programming.

Laboratory

Creation of simple programs in multiparadigm programming environment Mozart with programming language Oz.

Basic bibliography:

- 1. Roy P. van, Haridi S.: Concepts, Techniques and Models of Computer Programming, The MIT Press, 2004.
- 2. Mozart Consortium: The Mozart programming system, http://www.mozart-oz.org, 2006.

Additional bibliography:

1. Kowalski R.: Logic for problem solving, North-Holland, 1979.

Result of average student's workload

Activity	Time (working hours)
1. Lecture	15
2. Laboratory	15
3. Preparation to laboratory and tests	45

Student's workload

Source of workload	hours	ECTS		
Total workload	75	3		
Contact hours	30	1		
Practical activities	45	2		